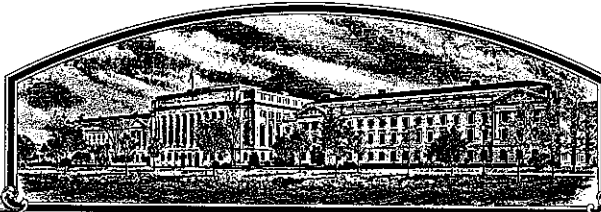


No.

8200124



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Dairyland Seed Co., Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'DSR-227'

In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
this 30th day of June in  
the year of our Lord one thousand nine  
hundred and eighty-three.

Attest:

*Kenneth H. ...*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*John R. Block*  
Secretary of Agriculture



UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED  
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY  A240U		1b. VARIETY NAME  DSR-227 R/s 5/6/83		FOR OFFICIAL USE ONLY PV NUMBER 8200124	
2. KIND NAME  Soybean		3. GENUS AND SPECIES NAME  Glycine MAX		FILING DATE 5/14/82	TIME 11:30 A.M.
4. FAMILY NAME (BOTANICAL)  Leguminosae		5. DATE OF DETERMINATION  December 1979		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 5/14/82 5/26/83
6. NAME OF APPLICANT(S)  Dairyland Seed Company, Inc.		7. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P. O. Box 958 3570 Hwy. H West Bend, WI 53095		8. TELEPHONE AREA CODE AND NUMBER  414-338-0163	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)  Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION  Wisconsin		11. DATE OF INCORPORATION  Dec., 1963	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Thomas G. Strachota P. O. Box 958 West Bend, WI 53095					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:					
<input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)					
<input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement.					
<input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)					
<input checked="" type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)					
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)					
16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					

5-2-82  
(DATE)

Thomas G. Strachota  
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



DSR-227

## Exhibit A, Origin and Breeding History of the Variety

DSR-227 is a F<sub>5</sub> derived line from the cross of Wayne x Hark. The breeding procedure was the pedigree method.

1967	F <sub>0</sub>	Cross
1968(Winter)	F <sub>1</sub>	Grow Out
1968	F <sub>2</sub>	Selection
1969	F <sub>3</sub>	Single Plant Selection
1970	F <sub>4</sub>	Preliminary Yield Test-Reselection
1971	F <sub>5</sub>	Single Plant Selection
1972	F <sub>6</sub>	Preliminary Yield Test
1973	F <sub>7</sub>	Replicated Yield Test
1974	F <sub>8</sub>	Replicated Yield Test
1975	F <sub>9</sub>	Replicated Yield Test, First Increase
1976	F <sub>10</sub>	Replicated Yield Test
1977	F <sub>11</sub>	Replicated Yield Test, Reselection for Uniformity
1978	F <sub>12</sub>	Replicated Yield Test
1979	F <sub>13</sub>	Replicated Yield Test
1980	F <sub>14</sub>	Replicated Yield Test, First Increase
1981	F <sub>15</sub>	Replicated Yield Test, Second Increase

This particular F<sub>5</sub> selection has shown very little segregation. There is a very low frequency of the parental off types: white flowers and yellow hila. Reselection of the variety for uniformity of plant type in the F<sub>11</sub> was very successful.

November 29, 1982

Addition to Application: 8200124, 'DSR-227' *rfs*

Over the last three years of increase the following variants have been found.

	<u>Percent</u>
Seed - Hilum Colors: Yellow	.012
Plant - Flower Color: White	.046

DSR-227

8200124

Exhibit B, Novelty Statement

DSR-227 is most similar to the variety DSR-232, but DSR-227 has buff hila whereas DSR-232 has imperfect black hila.



DSR-227

OBJECTIVE DESCRIPTION OF VARIETY  
SOYBEAN (GLYCINE MAX)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Dairyland Seed Company, Inc.

ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code)

P. O. Box 958, 3570 Hwy. H  
West Bend, WI 53095

FOR OFFICIAL USE ONLY

PVPO NUMBER

8200124

VARIETY NAME OR TEMPORARY  
DESIGNATION

DSR-227

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:

☒ 1 = SPHERICAL    2 = SPHERICAL FLATTENED    3 = ELONGATE    4 = OTHER (Specify)

2. SEED COAT COLOR:

☒ 1 = YELLOW    2 = GREEN    3 = BROWN    4 = BLACK    5 = OTHER (Specify)    SHADE: ☒ 1 = LIGHT    2 = MEDIUM    3 = DARK

3. SEED COAT LUSTER:

☒ 1 = DULL    2 = SHINY

4. SEED SIZE

☐ ☐ GRAMS PER 100 SEEDS

5. HILUM COLOR:

☒ 1 = BUFF    2 = YELLOW    3 = BROWN    4 = GRAY    5 = IMPERFECT BLACK    6 = BLACK    7 = OTHER (Specify)    SHADE: ☒ 1 = LIGHT    2 = MEDIUM    3 = DARK

6. COTYLEDON COLOR:

☒ 1 = YELLOW    2 = GREEN

7. LEAFLET SIZE (See Reverse):

☒ 1 = SMALL    2 = MEDIUM    3 = LARGE

8. LEAFLET SHAPE:

☒ 1 = OVATE    2 = OBLONG    3 = LANCEOLATE    4 = ELLIPTICAL    5 = OTHER (Specify) Lanceolate-Elliptical

9. LEAF COLOR (See reverse):

☒ 1 = LIGHT GREEN    2 = MEDIUM GREEN    3 = DARK GREEN

10. FLOWER COLOR:

☒ 1 = WHITE    2 = PURPLE    3 = OTHER (Specify)

11. POD COLOR:

☒ 1 = TAN    2 = BROWN    3 = BLACK

12. POD SET:

☒ 1 = SCATTERED    2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:

☒ 1 = GRAY    2 = BROWN    3 = OTHER (Specify)

SHADE:

☒ 1 = LIGHT    2 = MEDIUM    3 = DARK

14. PLANT TYPES (See Reverse):

☒ 1 = SLENDER    2 = BUSHY    3 = INTERMEDIATE

15. PLANT HABIT:

☒ 1 = DETERMINATE    2 = INDETERMINATE    3 = OTHER (Specify)

16. HYPOCOTYL COLOR:

☒ 1 = GREEN    2 = PURPLE

17. SEED PROTEIN:

☐ 1 = A    2 = B

18. NUMBER OF DAYS TO FLOWERING

(Place a zero in first box (e.g. 0 9) when days are 9 or less.)

☐ 4 ☐ 7

19. MATURITY GROUP:

☒ 1 = 00    2 = 0    3 = I    4 = II    5 = III  
6 = IV    7 = V    8 = VI    9 = VII    10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)

☐ ☐ ☐ MM. LENGTH OF SEEDLING

☐ ☐ ☐ MM. LENGTH OF COTYLEDON

☐ ☐ ☐ MM. WIDTH OF COTYLEDON

21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

☐ BACTERIAL PUSTULE

☐ SOYBEAN CYST

☐ DOWNY MILDEW

☐ PURPLE STAIN

☐ POD AND STEM BLIGHT

☐ ROOT KNOT

☐ FROGEYE

☐ STEM CANKER

☒ PHYTO-PHTHORA

☒ BROWN STEM ROT

☐ TARGET SPOT

☐ BROWN SPOT

☐ BUD BLIGHT

☐ WILDFIRE

☐ RHIZOCTONIA ROT

☐ OTHER (Specify)

8200124

FORM GR-470-2 (REVERSE)

## 22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	A4	Petiole angle	Crawford
Leaf shape	---	Seed size	---
Leaf color	---	Seed shape	---
Leaf surface	Sprite	Seedling pigmentation	---

## 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	135	1.5	72 cm	133	161		%	95	
Name of similar variety DSR-232	136	1.0	68 cm	145	149			122	

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

RECEIVED

MAY 14 1982





DSR-227

## Exhibit D, Additional Description of the Variety

DSR-227 differs from DSR-232 in two other characteristics:

<u>Character</u>	<u>DSR-227</u>	<u>DSR-232</u>
Leaflet Shape	Lanceolate-Elliptical	Ovate
Leaflet Size	Small	Medium

RECEIVED  
MAY 19 1965

## COLLATERAL ASSIGNMENT

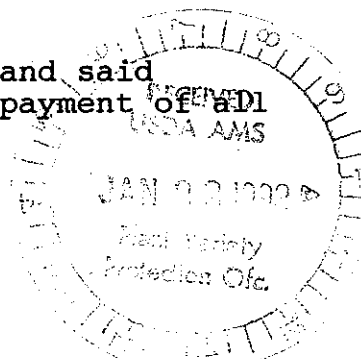
WHEREAS, Dairyland Seed Co., Inc., of West Bend, Wisconsin, hereinafter called "Assignor" is the owner of all rights to certain inventions in the following plant varieties for which said Assignor has obtained the following United States Plant Variety Protection Act Certificates:

<u>Certificate No.</u>	<u>Variety</u>	<u>Dated Issued</u>
7900023	Magnum Alfalfa	1-14-82
8900229	Magnum III Alfalfa	6-29-90
8100020	DSR-141 Soybean	2-26-81
8100021	DSR-171 Soybean	2-26-81
8100022	DSR-207 Soybean	2-26-81
8100023	DSR-232 Soybean	6-11-81
8100096	DSR-120 Soybean	8-27-81
8200123	DSR-320 Soybean	9-29-83
8200124	DSR-227 Soybean	6-30-83
8200125	DSR-352 Soybean	9-29-83
8500209	DSR-287 Soybean	1-30-87
8500210	DSR-297 Soybean	1-30-87
8500211	DSR-317 Soybean	1-30-87
8800065	DSR-128 Soybean	9-30-88
8800067	DSR-155 Soybean	9-30-88

WHEREAS, M&I Marshall & Ilsley Bank, hereinafter called "Assignee," a corporation of Wisconsin having its principal office in Milwaukee, Wisconsin, is desirous of acquiring a security interest in said inventions and certificates:

NOW, THEREFORE, in consideration of, and in security for, certain loans by Assignee to Assignor, the receipt of which by said Assignor is hereby acknowledged, said Assignor, by this document, does hereby conditionally assign, and transfer unto the Assignee the full and exclusive right for the territory of the United States of America, its territories and possessions, in and to said inventions as described in the certificates and in and to said certificates. Until repayment of all loans from Assignee to Assignor, both present and future, Assignee may hold and enjoy the certificates for its own use and behoof, and for its successors and assigns, to the full end term for which said certificates has been granted, as fully and entirely as the same would have been held by said Assignor had this assignment not been made.

Assignee agrees to re-assign said inventions and said certificates to Assignor conditionally upon the repayment of all loans from Assignor to Assignee.



Executed this 20<sup>TH</sup> day of January, 1992.

DAIRYLAND SEED CO., INC.

By: Thomas G. Strachota  
Thomas G. Strachota  
Executive Vice President

Attest: Marie A. Strachota  
Marie A. Strachota  
Secretary

Date: 1-20-92

Subscribed and sworn to before me  
this 20<sup>th</sup> day of January, 1992.

Kim M. Helling  
Notary Public, State of Wisconsin  
My Commission: Expires 5/92

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011392

